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1. A14-078: Flame, Smoke and Toxicity Resistant Recoverable Interior Trim Energy Absorption Material

   Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

   OBJECTIVE: To develop flame, smoke, and toxicity resistant, recoverable (retains its shape after impact) energy absorption trim material for use within military vehicle interiors. The material provides occupant impact protection during blast, crash and rollover events. DESCRIPTION: During underbody blast, crash and rollover events, the vehicle occupant, even when properly restrained experience ...

   SBIR Department of DefenseArmy

2. A14-079: Polymer Based Material to Improve Low-Speed Impact and Abrasion Resistance of Transparent Armor

   Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

   OBJECTIVE: The Phase II effort shall result in a novel polymer based transparent composite material that will be integrateable to the top, outer layer of the glass windshield or transparent armor in both commercial and military applications. This layer shall be designed to defeat rock strike threats and enhance transparent armor performance by reducing susceptibility to repetitive damage and late ...

   SBIR Department of DefenseArmy

3. A14-080: Improved Lateral Stability for Unmanned Ground Vehicle Convoys

   Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

   OBJECTIVE: Develop an improved system for maintaining lateral stability of extended manned and unmanned convoys. DESCRIPTION: Current robotic leader follower autonomy methods, when applied to multi vehicle convoy, often produce trailing vehicle trajectories unacceptably different from the lead vehicle trajectory. In military applications, this path deviation error can seriously endanger convoy ...

   SBIR Department of DefenseArmy

4. A13-097: Nanofluidic Sequencing of Polypeptides

   Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

   OBJECTIVE: Design, fabrication, and demonstration of an electrophoretic capillary nanofluidic integrated sensor platform effective for sequencing polypeptides. The goal is to rapidly determine the amino acid sequence of a large polypeptide in a non-destructive manner. DESCRIPTION: Standard methods of proteomics, such as mass spectrometry and SDS-PAGE, involve an extensive amount of sample prep ...

   SBIR Department of DefenseArmy

5. A13-098: Thermal Infrared Detection of Aerosolized Bacterial Spores

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop a software package designed for detecting and tracking biological aerosols using a thermal infrared camera. DESCRIPTION: In outdoor environments, biological aerosols exhibit a Mie scattering component within the infrared signature of the aerosol. The Mie scattering component is primarily due to the reflectance of the cold sky by the aerosol particles. The Mie scatter componen ...

SBIR Department of DefenseArmy

6. A13-099: Secondary Processing Development and Prototyping of Cast Single-Piece Vehicle

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop and prototype highly scalable processes to fabricate single-piece underbody structures to achieve a combination of high strength and high toughness. DESCRIPTION: The Army is interested in the production of large single-piece underbody structures for combat vehicles. The structure must possess an outstanding combination of strength and toughness for it to survive battlefiel ...

SBIR Department of DefenseArmy

7. A13-070: In-Plane Conductivity Improvement to Fiber Reinforced Composite Materials

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop a lightweight solution to improve the in-plane thermal conductivity of carbon fiber reinforced polymer composite materials that is either directly integrated into the material, co-cured within the fabrication process of a composite structure, or secondarily bonded to the structure without significantly affecting the structural capabilities of the material. DESCRIPTION: Fibe ...

SBIR Army

8. A13-071: Low Cost Finishing of Optical Ceramic Domes with Embedded Grids

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: The goal of this topic is to develop methods or techniques that will reduce the fabrication costs of optical ceramic domes containing embedded grids. DESCRIPTION: The Army has been developing large hemispherical domes for tri-mode seeker applications in current and future missile systems. The domes are made from hard optical ceramic materials such as aluminum oxynitride (ALON) and s ...

SBIR Army

9. A13-072: Non-Fouling Water Reuse Technologies

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop a non-fouling water reuse technology to achieve field-potable water quality from gray water influent. DESCRIPTION: Supply of water for potable and non-potable uses at contingency operating bases (COBs) represents a significant logistical and economic burden for the Army. To help alleviate this burden, on-site water treatment with reverse osmosis (RO) membrane technology has ...

SBIR Army

10. A13-073: Developing Methods for Positional Accuracy of High Resolution Satellites

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Increase the pointing accuracy of the Kestrel Eye satellite to 10 meters or less. DESCRIPTION: The United States has very highly capable imaging satellites built by both Government and commercial organizations. However these satellites are expensive, limited in number and there is competition for their use. The Army desires to increase the persistency of imagery coverage, have task ...

SBIR Army

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